9.0 References

- Clark County. 2006. Draft Environmental Impact Statement for the Comprehensive Growth Management Plan of Clark County, Battle Ground, Camas, La Center, Ridgefield, Vancouver, Washougal, and Yacolt. August 25, 2006.
- Clark County. 2007. Final Environmental Impact Statement for the Comprehensive Growth Management Plans of Clark County, Battle Ground, Camas, La Center, Ridgefield, Vancouver, Washougal, and Yacolt. May 4, 2007.
- Clark County. 2008. Highway 99 Sub-Area Plan. December 16, 2008.
- Clark County. 2010. Clark County, Washington Bicycle and Pedestrian Master Plan. October 2010. Accessed July 2015 at http://www.clark.wa.gov/planning/bikeandped/docs.html.
- Clark County. 2012. Clark County Rural Lands Study. May 15, 2012.
- Clark County. 2012. Clark County 20-Year Comprehensive Growth Management Plan 2004-2024.

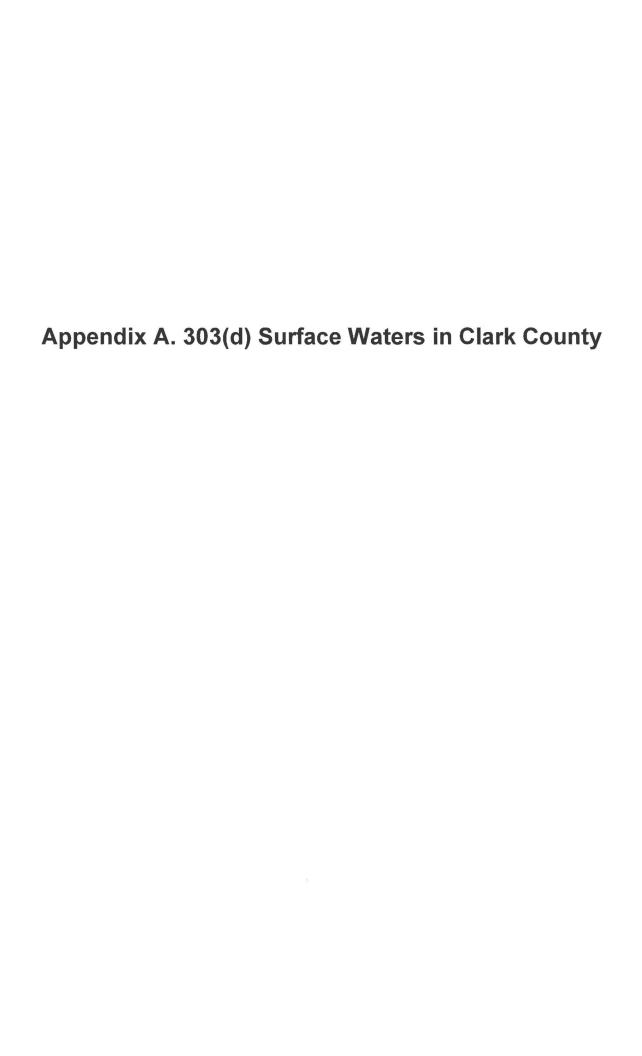
 Adopted September 2007, last updated December 2012.
- Clark County. 2012. Clark County Shoreline Master Program 2012 Update. Approved August 29, 2012.
- Clark County. 2013. Arterial Atlas. May 2013. Accessed July 2015 at http://www.clark.wa.gov/planning/Transportation/transportation.html
- Clark County. 2014. Clark County Conservation Areas Acquisition Plan. Legacy Lands Program. Environmental Services Department. March, 2014
- Clark County. 2014. 2015 2020 Transportation Improvement Program (TIP). Clark County Public Works. November 2014. Access at http://www.clark.wa.gov/publicworks/construction/documents/TIP adopted.pdf.
- Clark County. 2015. Solid Waste Management Plan. May 2015.
- Clark County. 2015. Clark County Municipal Code. Current through July 21, 2015.
- Clark County. 2015. Vacant Buildable Lands Model Maps and GIS data. July 2015.
- C-TRAN. 2010. C-TRAN 20 Year Transit Development Plan. Adopted June 8, 2010.
- Fort Vancouver Regional Library District. 2013. Strategic Facilities Plan Final Report. December 2013.
- NOAA Fisheries. 2012. Status of ESA Listings & Critical Habitat Designations for West Coast Salmon & Steelhead. Available:

 http://www.westcoast.fisheries.noaa.gov/publications/protected_species/salmon_steelhead/status_of_esa_salmon_listings_and_ch_designations_map.pdf. Accessed December 2014.
- Natural Resources Conservation Service (NRCS). 1972. Soil Survey of Clark County, Washington.

 November 1972. Available at

 http://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/washington/WA011/0/wa011_text.pdf.
- Southwest Washington Regional Transportation Council (RTC). 2015. Congestion Management Process, 2014 Monitoring Report. July 2015.

- Southwest Washington Regional Transportation Council (RTC). 2014. Regional Transportation Plan for Clark County, 2014 Update. Adopted December 2, 2014. Accessed at http://www.rtc.wa.gov/reports/rtp/Rtp2014Clark.pdf.
- US Census Bureau. 2015. U.S, Census Bureau State and County QuickFacts. Accessed June 2015 at http://quickfacts.census.gov/qfd/index.html.
- USFWS. 2014. Trust resources list. Information, Planning, and Conservation System (IPAC). Available: http://ecos.fws.gov/ipac/. Accessed December 2014.
- WDFW. 2008. Priority Habitats and Species List. Available: http://wdfw.wa.gov/conservation/phs/list/. Accessed December 2014.
- WDFW. 2013. PHS Statewide List and Distribution by County (Excel spreadsheet). Available: http://wdfw.wa.gov/conservation/phs/list/. Accessed December 2014.
- WDFW. 2014a. Washington State Species of Concern List. Available: http://wdfw.wa.gov/conservation/endangered/All/. Accessed December 2014.
- WDFW. 2014b. Salmonscape online mapping. Available: http://apps.wdfw.wa.gov/salmonscape/map.html. Accessed December 2014.
- Washington State Department of Transportation (WSDOT). 2014. Washington State Freight Mobility Plan. October 2014. Available: http://www.wsdot.wa.gov/Freight/freightmobilityplan.
- Washington Natural Heritage Program (WNHP). 2014a. Washington Natural Heritage Information System List of Known Occurrences of Rare Plants in Washington, September 2014, Clark County. Available: http://www1.dnr.wa.gov/nhp/refdesk/lists/plantsxco/clark.html. Accessed December 2014.
- Washington Natural Heritage Program (WNHP). 2014b. Known High-Quality or Rare Plant Communities and Wetland Ecosystems of Washington, Clark County. September 2014. Available: http://www1.dnr.wa.gov/nhp/refdesk/lists/communitiesxco/clark.html. Accessed December 2014.
- Washington State Department of Health (DOH). 2010. Source Water Protection information website. Accessed June 2015 at http://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/SourceWater/SourceWaterProtection.
- Washington State Office of Financial Management (OFM). 2015. April 1 official population estimates. Accessed July 2015 at http://www.ofm.wa.gov/pop/april1/.
- Yacolt. 2013. Town of Yacolt Comprehensive Growth Management Plan. July 2013.



Appendix A. 303(d) Surface Waters in Clark County

Water Body	Parameter	Change
Big Tree Creek	Temperature, Bacteria	Stream not previously identified on 2004 303(d) list for Clark County
Breeze Creek	Temperature, Bacteria	Temperature added to previously identified impairment
Burnt Bridge Creek	Bacteria, pH, Dissolved Oxygen, Temperature	pH added to previously identified impairments
Cedar Creek	Bacteria	Stream not previously identified on 2004 303(d) list for Clark County
China Ditch	Dissolved Oxygen, Temperature	No change
China Ditch Lateral	Dissolved Oxygen, Temperature	No change
Columbia River	Temperature, Bacteria, Dissolved Oxygen	Dissolved Oxygen added to previously identified impairments; TMDL developed for previously identified impairments including Dioxin and Total Dissolved Gas; No current listing for Dioxin or PCB
Curtin Creek	Dissolved Oxygen, pH	No change
Dean Creek	Temperature	Stream not previously identified on 2004 303(d) list for Clark County
Dwyer Creek	Dissolved Oxygen	No change
Fifth Plain Creek	Dissolved Oxygen, Temperature	No change
Gee Creek	Bacteria	No change
Jenny Creek	Bacteria, Temperature	Stream not previously identified on 2004 303(d) list for Clark County
King Creek	Temperature	Stream not previously identified on 2004 303(d) list for Clark County
Lacamas Creek	Dissolved Oxygen, Temperature, Bacteria, pH	No change
Lacamas Lake	Total Phosphorous	No change
Lake River	Temperature; Bacteria; 2,3,7,8- TCDD; 4,4-DDE; Dieldrin; PCB	2,3,7,8-TCDD; 4,4-DDE, Dieldrin, and PCB added to previously identified impairments
Lewis River	Total Dissolved Gas	Temperature no longer identified on the 303(d) for the Lewis River
Lewis River – East Fork	Temperature, Bacteria	No change
Lockwood Creek	Bacteria, Temperature	Temperature added to previously identified impairments
Mason Creek	Bacteria, Temperature	Stream not previously identified on 2004 303(d) list for Clark County
Matney Creek	Bacteria, Temperature, Dissolved Oxygen	No change

Water Body	Parameter	Change
McCormick Creek	Bacteria	No change
Merwin Lake	РСВ	Lake not previously identified on 303(d) list
Peterson Ditch	Bacteria, Temperature	Stream not previously identified on 2004 303(d) list for Clark County
Riley Creek	Bacteria	Stream not previously identified on 2004 303(d) list for Clark County
Rock Creek	Bacteria, Temperature	Temperature added to previously identified impairments
Round Lake	pH, Dissolved Oxygen	No change
Salmon Creek	pH, Dissolved Oxygen	TMDL approved and Implementation Plan in place for Bacteria, Temperature, and Turbidity, which were previously identified parameters.
Shanghai Creek	Temperature, Dissolved Oxygen, pH	No change
Unnamed tributary to Brezee Creek	Bacteria	Stream not previously identified on 2004 303(d) list for Clark County
Vancouver Lake	Total Phosphorous; Bacteria; Toxaphene; 2,3,7,8-TCDD; Dieldrin; PCB	2,3,7,8-TCDD; Toxaphene, and Dieldrin added to previously identified impairments
Weaver Creek	рН	No change
Whipple Creek	Bacteria	No change
Yacolt Creek	Bacteria	Stream not previously identified on 2004 303(d) list for Clark County

Source: 2012 Washington State 303(d) list of impaired water bodies.



Appendix B. Fish and Wildlife Tables

Table 1. Definitions of WDFW Priority Upland Habitat Types Found in Clark County

Priority Habitat	Description	
Aspen Stands	Pure or mixed stands of aspen greater than 0.4 ha (1 acre).	
Biodiversity Areas and Corridors Biodiversity Area: An area identified as biologically diverse through a scientification assessment conducted over a landscape scale; or area is within a city or an urarea (UGA) and contains habitat that is valuable to fish or wildlife and is most of native vegetation.		
	Biodiversity Corridor: A relatively undisturbed, unbroken tract of vegetation connecting fish and wildlife habitat conservation areas, priority habitats, areas identified as biologically diverse or valuable habitats within a city or UGA.	
Herbaceous Balds	Variable-sized patches of grass and forb vegetation located on shallow soils over bedrock, commonly fringed by forest or woodland. Typically consists of low-growing vegetation adapted for survival on shallow soils amid seasonally dry conditions, often on steep slopes.	
Old-growth/Mature Forest	Old-growth west of Cascade crest: Stands > 3 ha (7.5 acres) having at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 20 trees/ha (8 trees/acre) that are >81 cm (32 in) dbh or > 200 years of age; and > 10 snags/ha (4 snags/acre) over 51 cm (20 in) diameter and 4.6 m (15 ft) tall; with numerous downed logs, including 10 logs/ha (4 logs/acre) that are > 61 cm (24 in) diameter and > 15 m (50 ft) long. High elevation stands (> 762m [2500ft]) may have lesser dbh [> 76 cm (30 in)], fewer snags [> 0.6/ha (1.5/acre)], and fewer large downed logs [0.8 logs/ha (2 logs/acre) that are > 61 cm (24 in) diameter and > 15 m (50 ft) long].	
	Mature forests: Stands with average diameters exceeding 53 cm (21 in) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80 - 200 years old west of the Cascade crest.	
Oregon White Oak Woodlands	Stands of oak or oak/conifer associations where canopy coverage of the oak componen of the stand is 25%; or where total canopy coverage of the stand is <25%, but oak accounts for at least 50% of the canopy coverage. The latter is often referred to as oak savanna. In non-urbanized areas west of the Cascades, priority oak habitat consists of stands > 0.4 ha (1.0 ac) in size. In urban or urbanizing areas, single oaks or stands < 0.4 h (1 ac) may also be considered a priority when found to be particularly valuable to fish a wildlife.	
West Side Prairie	Herbaceous, non-forested (< 60% forest canopy cover) plant communities that can either take the form of a dry prairie where soils are well-drained or a wet prairie. Typically occurs on soil types known to be associated with prairie. The presence of certain diagnostic plants is required to establish an occurrence of prairie, although invasive plants are often dominant.	

Priority Habitat	Description
Caves	A naturally occurring cavity, recess, void, or system of interconnected passages (including associated dendritic tubes, cracks, and fissures) which occurs under the earth in soils, rock, ice, or other geological formations, and is large enough to contain a human. Mine shafts (a human-made excavation in the earth usually used to extract minerals) may mimic caves, and abandoned mine shafts with actual or suspected occurrences of priority species should be treated in a manner similar to caves.
Cliffs	Greater than 7.6 meters (25 feet) high and occurring below 1524 meters (5000 feet).
Snags and Logs	Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 51 cm (20 in) in western Washington and are > 2 m (6.5 ft) in height. Priority logs are > 30 cm (12 in) in diameter at the largest end, and > 6 m (20 ft) long. Priority snag and log habitat includes individual snags and/or logs, or groups of snags and/or logs of exceptional value to wildlife due to their scarcity or location in a particular landscape. Areas with abundant, well-distributed snags and logs are also considered priority snag and log habitat. Examples include large, sturdy snags adjacent to open water, remnant snags in developed or urbanized settings, and areas with a relatively high density of snags.
Talus	Homogenous areas of rock rubble ranging in average size 0.15 - 2.0 m (0.5 - 6.5 ft), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.

Sources: WDFW 2008, 2013

Table 2. Washington State Priority Species Known to Occur in Clark County

Common Name	Scientific Name	State Status	
Plants			
Oregon bolandra	Bolandra oregano	Sensitive	
Dense sedge	Carex densa	Threatened	
Few-flowered collinsia	Collinsia sparsiflora var. bruceae	Sensitive	
Oregon coyote-thistle	Eryngium petiolatum	Threatened	
Western wahoo	Euonymus occidentalis var. occidentalis	Sensitive	
Western sweetvetchh	Hedysarum occidentale var. occidentale	Sensitive	
Nuttall's quillwort	Isoetes nuttallii	Sensitive	
Smooth goldfields	Lasthenia glaberrima	Endangered	
Branching montia	Montia diffusa	Sensitive	
California broomrape	Orobanche California ssp. Grayana	Endangered	
Western yellow oxalis	Oxalis suksdorfii	Threatened	
Oregon yampah	Perideridia oregano	Sensitive	
Western false dragonhead	Physostegia parviflora	Review group 1	
Wheeler's bluegrass	Poa nervosa	Sensitive	
Great polemonium	Polemonium carneum	Threatened	
Idaho gooseberry	Ribes oxyacanthoides var. irriguum	Threatened	
Soft-leaved willow	Salix sessilifolia	Sensitive	
Hairy-stemmed checker-mallow	Sidalcea hirtipes	Threatened	
Western ladies' tresses	Spiranthes porrifolia	Sensitive	
Hall's aster	Symphyotrichum hallii	Threatened	
Small-flowered trillium	Trillium parviflorum	Sensitive	
Columbia water-meal	Wolffia Columbiana	Review group 1	
California compassplant	Wyethia angustifolia	Sensitive	
Fish			
Leopard dace	Rhinichthys falcatus	Candidate	
Mountain sucker	Catostomus platyrhynchus	Candidate	

Common Name	Scientific Name	State Status
White sturgeon	Acipenser transmontanus	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Kokanee	Oncorhynchus nerka	Species of recreational, commercial, or tribal importance
Pink salmon	Oncorhynchus gorbuscha	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Wildlife		
Cascade torrent salamander	Rhyacotriton cascadae	Candidate
Western grebe	Aechmophorus occidentalis	Candidate
Golden eagle	Aquila chrysaetos	Candidate
Sandhill crane	Grus Canadensis	Endangered
Vaux's swift	Chaetura vauxi	Candidate
Pileated woodpecker	Dryocopus pileatus	Candidate
Purple martin	Progne subis	Candidate
Gray-tailed vole	Microtus canicaudus	Candidate
Great blue heron	Ardea Herodias	Vulnerable aggregations
Cavity-nesting ducks	Wood Duck (Aix sponsa), Barrow's Goldeneye (Bucephala islandica), Common Goldeneye (Bucephala clangula), Bufflehead (Bucephala albeola), Hooded Merganser (Lophodytes cucullatus)	Species of recreational, commercial, or tribal importance
Non-breeding concentrations of Barrow's goldeneye, common goldeneye, bufflehead	Barrow's Goldeneye (Bucephala islandica), Common Goldeneye (Bucephala clangula), Bufflehead (Bucephala albeola)	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Trumpeter swan	Cygnus buccinators	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Tundra swan	Cygnus columbianus	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Waterfowl concentrations	Anatidae excluding Canada Geese in urban areas	Vulnerable aggregations; Species of recreational, commercial, or tribal importance
Mountain quail	Oreortyx pictus	Species of recreational, commercial, or tribal importance

Common Name	Scientific Name	State Status
Sooty grouse	Dendragapus fuliginosus	Species of recreational, commercial, or tribal importance
Non-breeding concentrations of shorebirds	Charadriidae Scolopacidae Phalaropodidae	Vulnerable aggregations
Band-tailed pigeon	Columba fasciata	Species of recreational, commercial, or tribal importance
Roosting concentrations of big brown bat, Myotis bats, pallid bat	Big-brown Bat (Eptesicus fuscus), Myotis bats (Myotis spp.), Pallid Bat (Antrozous pallidus)	Vulnerable aggregations
Marten	Martes Americana	Species of recreational, commercial, or tribal importance
Columbia black-tailed deer	Odocoileus hemionus columbianus	Species of recreational, commercial, or tribal importance
Elk	Cervus elaphus	Species of recreational, commercial, or tribal importance
California sea lion	Zalophus californianus	Vulnerable aggregations
Harbor seal	Phoca vitulina	Vulnerable aggregations
Steller sea lion	Eumetopias jubatus	Threatened

Sources: WDFW 2008, 2013, 2014

Table 3. Federally Listed Threatened & Endangered Species and Critical Habitat Found in Clark County

Common Name	Scientific Name	Federal Status	State Status	Habitat
Plants				
Bradshaw's desert parsley	Lomatium bradshawii	Endangered	Endangered	Low-elevation grasslands and prairies; seasonally flooded areas near streams.
Golden paintbrush	Castilleja levisecta	Threatened	Endangered	Open grasslands, prairies.
Water howellia	Howellia aquatilis	Threatened	Threatened	Low-elevation wetlands, vernal pools.
Fish				
Columbia River chum	Oncorhynchus keta	Threatened	Candidate	Spawn in fresh water, mature in salt water.
Lower Columbia River coho	Oncorhynchus kisutch	Threatened	None	Spawn in fresh water, mature in salt water.
Chinook (Lower Columbia River, Snake River Fall, Snake River Spring/Summer, Upper Columbia River Spring, Upper Willametter River)	Oncorhynchus tshawytscha	Threatened (Lower Columbia, Snake River, Upper Willamette River) Endangered (Upper Columbia River)	Candidate	Spawn in fresh water, mature in salt water.
Steelhead (Lower Columbia River, Upper Columbia River, Snake River Basin, Middle Columbia River, Upper Willamette River)	Oncorhynchus mykiss	Threatened	Candidate	Spawn in fresh water, mature in salt water.
Sockeye (Snake River Basin)	Oncorhynchus nerka	Endangered	Candidate	Spawn in fresh water, mature in salt water.
Pacific eulachon	Thaleichthys pacificus	Threatened	Candidate	Spawn in fresh water, mature in salt water.
Green sturgeon southern DPS	Acipenser medirostris	Threatened	None	Spawn in fresh water, mature in salt water.
Bull trout	Salvelinus confluentus	Threatened	Candidate	Typically fresh water, rarely migrating in salt water.

Common Name	Scientific Name	Federal Status	State Status	Habitat
Wildlife				
Oregon spotted frog	Rana pretiosa	Threatened	Endangered	Perennial water bodies, especially large marshes.
Northern spotted owl	Strix occidentalis caurina	Threatened	Endangered	Old-growth forest.
Streaked horned lark	Eremophila alpestris strigata	Threatened	Endangered	Wide open areas with sparse vegetation; airports; dredge spoil piles.
Yellow billed cuckoo	Coccyzus americanus	Threatened	Candidate	Forested riparian areas.
Gray wolf	Canis Iupus	Endangered	Endangered	Range of habitats, from grasslands to forest.
Fisher	Martes pennant	Proposed Threatened	Endangered	Middle to lower elevation forests with large trees, snags, logs.

Sources: NOAA Fisheries 2012, USFWS 2014, WDFW 2008, 2013, 2014, WNHP 2014, WNHP rare plant online information (http://www1.dnr.wa.gov/nhp/refdesk), USFWS species profiles (http://ecos.fws.gov/speciesProfile), USFWS critical habitat portal mapper (http://crithab.fws.gov/crithab).

Table 4. Federal Species of Concern in Clark County

Common Name	Scientific Name	Federal Status	State Status
Plants			
Tall bugbane	Cimicifuga elata	Species of Concern	Sensitive
Clackamas corydalis	Corydalis aquae-gelidae	Species of Concern	Sensitive
Torrey's peavine	Lathyrus torreyi	Species of Concern	Threatened
Fish			
Pacific lamprey	Entosphenus tridentata	Species of Concern	None
River lamprey	Lampetra ayresi	Species of Concern	Candidate
Coastal resident/Sea-run cutthroat	Oncorhynchus clarki clarki	Species of Concern	None
Wildlife			
Larch Mountain salamander	Plethodon larselli	Species of Concern	Sensitive
Western toad	Anaxyrus boreas	Species of Concern	Candidate
Pacific pond turtle	Actinemys marmorata	Species of Concern	Endangered
Bald eagle	Haliaeetus leucocephalus	Species of Concern	Sensitive
Northern goshawk	Accipiter gentilis	Species of Concern	Candidate
Peregrine falcon	Falco peregrinus	Species of Concern	Sensitive
Slender-billed white- breasted nuthatch	Sitta carolinensis aculeate	Species of Concern	Candidate
Townsend's big-eared bat	Corynorhinus townsendii	Species of Concern	Candidate

Sources: WDFW, 2008, 2013, 2014, WNHP 2014.

Table 5. Migratory Birds of Concern in Clark County

Common Name	Scientific Name	Seasonal Occurrence
Bald eagle	Haliaeetus leucocephalus	Year-round
Brewer's sparrow	Spizella breweri	Breeding
Calliope hummingbird	Stellula calliope	Breeding
Caspian tern	Hydroprogne caspia	Breeding
Cassin's finch	Carpodacus cassinii	Year-round
Ferruginous hawk	Buteo regalis	Breeding
Flammulated owl	Otus flammeolus	Breeding
Fox sparrow	Passerella liaca	Breeding, wintering
Long-billed curlew	Numenius americanus	Breeding
Olive-sided flycatcher	Contopus cooperi	Breeding
Peregrine falcon	Falco peregrines	Breeding
Purple finch	Carpodacus purpureus	Year-round
Rufous hummingbird	Selasphorus rufus	Breeding
Sage thrasher	Oreoscoptes montanus	Breeding
Short-eared owl	Asio flammeus	Year-round
Tricolored blackbird	Agelaius tricolor	Breeding
Vesper sparrow	Pooecetes gramineus ssp. Affinis	Breeding
Willow flycatcher	Empidonax traillii	Breeding

Source: USFWS 2014